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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. |
|-----------------|-------------|----------------------|---------------------|
| 08/983,318      | 01/15/98    | HUOTARI              | S PM244515/296      |

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EXAMINER

GESESSE, T

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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2746

DATE MAILED:

07/07/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

# Office Action Summary

Application No.  
**08/983,318**

Applicant(s)  
**Seppo Huotari**

Examiner  
**Tilahun, Gesesse**

Group Art Unit  
**2746**



☒ Responsive to communication(s) filed on Jan 15, 1998

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claims

☒ Claim(s) 1-9 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1-9 is/are rejected.

☐ Claim(s) \_\_\_\_\_ is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☒ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been  
☒ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Art Unit: 2746

## **DETAILED ACTION**

### ***Specification***

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

### ***Drawings***

2. The corrected or substitute drawings were received on 01/15/98. These drawings are filed formal and no objected by draftsman .

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was

Art Unit: 2746

made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brochu et al (us pat.5,711,006) in view of Patsiokas et al (us pat.5,063,588).

Regarding claims 1 and 6, Brochu et al disclose a method for call setup and drop addressing a release resource message in a mobile communication system comprising a home location register (HLR) for permanent storage of subscriber data on mobile stations registered in the network, and at least one visitor location register (VLR) for temporary storage of subscriber data on mobile station (MS) located in the geographical area monitored by the visitor is transmitted between the switching center (GMSC, MSC); see col. 3 lines 53-62 and col.4 line 6-15. Brochu et al fails to disclose to transmit the identity of calling subscriber unit to the mobile switching center (MSC) of the called subscriber signaling connection. However, Patsiokas et al disclose the identity of a calling subscriber unit (106) is provided to a called subscriber unit(s)(106') by requiring the calling subscriber to identify itself(112) to a central station (102 and 104a-c) and request across to the communication resources. The central station forwards the identity of the calling subscriber to the called subscriber (114); see abstract. Therefore, it would have been obvious to an ordinary skill in the art to modify Brochu in transmitting identity of a calling subscriber to a called subscriber through central station, as per the teaching of Patsiokas, in order to alert the called subscriber for respond to (answer) the call or leave unanswered.

Art Unit: 2746

Regarding claim 2, Brochu et al fail to disclose that the identity of calling subscriber is transmitted before call set-up. However, Patsiokas et al disclose a calling subscriber unit (106) transmits call request includes an identification code that is associated with the calling subscriber unit; see col.2 lines 20-34. Therefore, it would have been obvious to an ordinary skill in the art to modify Brochu in transmitting identity without call set up, as disclosed by Patsiokas, in order to avoid signaling cost and energy for call set up which could be voided if called didn't want to accept the call.

Regarding claims 3 and 7, Brochu et al disclose that the home location register (HLR)(16) transmits to the visitor location register (VLR)(22)connection with a request for routing information; see col.3 lines 53-62. Therefore, it would have been obvious to ordinary skill in the art to send a signal for requesting a location from HLR to VLR for routing location information, in order to allocate a subscriber's location.

Regarding claims 4 and 8, Neither Brochu nor Patsiokas teach a MAP PROVIDE-ROAMING-NUMBER message. However , it would have been obvious to an ordinary skill in the art to send a message MAP PROVIDE-ROAMING-NUMBER, for data information routing in the network.

Regarding claims 5 and 9 , Brochu et al disclose a called subscriber(26)located at visiting network(20); see fig.1 and it's description. Therefore, it would have been obvious to ordinary skill in the art to be the called subscriber in the visiting network, for this reason roaming information is necessary.

Art Unit: 2746

*Conclusion*


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tilahun Gesesse whose telephone number is (703) 308-5873. The examiner can normally be reached on Monday-Thursday from 6:30 am to 5:00 pm.

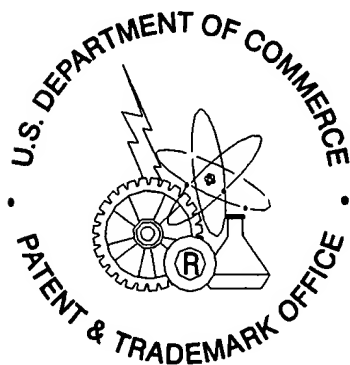
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin, can be reached on (703) 305-4366. The fax phone number for this Group is (703) 308-5403.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

June 28, 1999

**Tilahun Gesesse**

  
EDWARD F. URBAN  
PRIMARY EXAMINER



Application/Control Number: 08/983,318

Page 6

Art Unit: 2746